

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-90. (canceled)

Claim 91. (previously presented) A method of making a purified antibody which specifically binds to a LAT polypeptide comprising an amino acid sequence according to SEQ ID NO: 4 comprising:

- a) immunizing an animal with a polypeptide antigen comprising at least about five amino acids of the amino acid sequence of SEQ ID NO: 4; and
- b) isolating the antibody from said animal.

Claim 92. (previously presented) The method of claim 91, wherein the antibody is a polyclonal antibody.

Claim 93. (previously presented) A method of making a purified antibody which specifically binds to a LAT polypeptide comprising an amino acid sequence according to SEQ ID NO: 4 comprising:

- a) immunizing an animal with a polypeptide antigen comprising at least about five amino acids of the amino acid sequence of SEQ ID NO: 4
- b) isolating antibody-producing cells from the animal;
- c) fusing the antibody producing cells with immortalized cells in culture to form antibody-producing cells;
- d) culturing the cells; and
- e) isolating from the culture, antibodies which bind specifically to a LAT polypeptide comprising an amino acid sequence according to SEQ ID NO: 4.

Claim 94. (previously presented) The method of claim 93, wherein the antibody is a monoclonal antibody.

Claim 95. (previously presented) The method of any of claims 91-94, wherein the polypeptide antigen comprises at least 20 amino acids of the amino acid sequence of SEQ ID NO: 4.

Claim 96. (previously presented) The method of any of claims 91-94, wherein the polypeptide antigen comprises the amino acid sequence of SEQ ID NO: 4.

Claim 97. (previously presented) The method of claim 95, wherein the polypeptide antigen comprises the cytosolic tail of a LAT comprising an amino acid sequence according to SEQ ID NO: 4.

Claim 98. (previously presented) The method of claim 95, wherein the polypeptide antigen comprises amino acids 31-233 of a LAT polypeptide comprising an amino acid sequence according to SEQ ID NO: 4.

Claim 99. (previously presented) The method of any of claims 91-94, wherein the polypeptide antigen comprises a phosphotyrosine and the antibody specifically binds to a phosphorylated LAT polypeptide comprising an amino acid sequence according to SEQ ID NO: 4.

Claim 100. (previously presented) The method of any of claims 91-94, wherein the antibody immunoprecipitates a 40 kd protein from a lysate of C305 cells transfected with a LAT cDNA comprising a nucleic acid sequence according to SEQ ID NO: 1, but which does not

immunoprecipitate said 40kd protein from a lysate of non-transfected cells.

Claim 101. (previously presented) The method of any of claims 91-94, wherein the antibody does not stain endothelial cells.

Claim 102. (previously presented) The method of claim 101, wherein the antibody immunoprecipitates a 40 kd protein from a lysate of 293T cells transfected with a LAT cDNA comprising a nucleic acid sequence according to SEQ ID NO: 1, but which does not immunoprecipitate said 40kd protein from a lysate of non-transfected cells.

Claim 103. (previously presented) A purified antibody which is generated against a polypeptide comprising at least about five non-phosphorylated amino acids of the amino acid sequence of SEQ ID NO: 4 and which specifically binds to a LAT polypeptide comprising an amino acid sequence according to SEQ ID NO: 4.

Claim 104. (previously presented) The purified antibody of claim 103, wherein the antibody is polyclonal.

Claim 105. (previously presented) The purified antibody of claim 104, wherein the polypeptide comprising at least about five non-phosphorylated amino acids comprises SEQ ID NO: 4.

Claim 106. (previously presented) The purified antibody of Claim 104, wherein the polypeptide comprises at least about 20 amino acids of SEQ ID NO: 4.

Claim 107. (previously presented) The purified antibody of claim 106, wherein said polypeptide comprising at least about twenty amino acids of the non-phosphorylated amino acid

sequence of SEQ ID NO: 4 comprises amino acids 31-233 of LAT.

Claim 108. (previously presented) The purified antibody of claim 104, wherein the polypeptide comprises SEQ ID NO: 4.

Claim 109. (previously presented) The purified antibody of claim 104, wherein said polypeptide comprises the cytosolic tail of LAT.

Claim 110. (previously presented) The purified antibody of any of claim 104, wherein the antibody immunoprecipitates a 40 kd protein from a lysate of C305 cells transfected with a LAT cDNA comprising a nucleic acid sequence according to SEQ ID NO: 1, but which does not immunoprecipitate said 40 kd protein from a lysate of non-transfected cells.

Claim 111. (previously presented) The purified antibody of claim 104, wherein the antibody does not stain endothelial cells.

Claim 112. (previously presented) The purified antibody of claim 103, wherein the antibody is a monoclonal antibody.

Claim 113. (previously presented) The purified antibody of claim 112, wherein the polypeptide comprising at least about five non-phosphorylated amino acids comprises SEQ ID NO: 4.

Claim 114. (previously presented) The purified antibody of claim 112, wherein the polypeptide comprises at least about 20 amino acids of SEQ ID NO: 4.

Claim 115. (previously presented) The purified antibody of claim 114, wherein said

polypeptide comprising at least about twenty amino acids of the non-phosphorylated amino acid sequence of SEQ ID NO: 4 comprises amino acids 31-233 of LAT.

Claim 116. (previously presented) The purified antibody of claim 112, wherein the polypeptide comprises SEQ ID NO: 4.

Claim 117. (previously presented) The purified antibody of claim 112, wherein said polypeptide comprises the cytosolic tail of LAT.

Claim 118. (previously presented) The purified antibody of claim 112, wherein the antibody immunoprecipitates a 40 kd protein from a lysate of C305 cells transfected with a LAT cDNA comprising a nucleic acid sequence according to SEQ ID NO: 1, but which does not immunoprecipitate the 40 kd protein from a lysate of non-transfected cells.

Claim 119. (previously presented) The purified antibody of claim 112, wherein the antibody does not stain endothelial cells.

Claim 120. (previously presented) The purified antibody of claim 112, wherein the antibody is chimeric.

Claim 121. (previously presented) The purified antibody of claim 112, wherein the antibody is a humanized antibody.

Claim 122. (canceled)

Claim 123. (previously presented) A purified antibody which is generated against a polypeptide comprising at least about five amino acids of the amino acid sequence of SEQ ID

NO: 4, wherein the at least about five amino acids comprises a phosphotyrosine residue and wherein the antibody specifically binds to a phosphorylated LAT polypeptide comprising an amino acid sequence according to SEQ ID NO: 4.

Claim 124. (previously presented) The purified antibody of claim 123, wherein the antibody is a polyclonal antibody.

Claim 125. (previously presented) The purified antibody of claim 124, wherein the polypeptide comprising at least about five amino acids comprises SEQ ID NO: 4.

Claim 126. (previously presented) The purified antibody of claim 124, wherein the polypeptide comprises at least about 20 amino acids of SEQ ID NO: 4.

Claim 127. (previously presented) The purified antibody of claim 126, wherein said polypeptide comprising at least about twenty amino acids of the amino acid sequence of SEQ ID NO: 4 comprises amino acids 31-233 of LAT.

Claim 128. (previously presented) The purified antibody of claim 124, wherein the polypeptide comprising from at least about five amino acids to at least about 20 amino acids of SEQ ID NO: 4.

Claim 129. (previously presented) The purified antibody of claim 124, wherein said polypeptide comprises the cytosolic tail of LAT.

Claim 130. (previously presented) The purified antibody of claim 124, wherein the antibody immunoprecipitates a 40 kd protein from a lysate of C305 cells transfected with a LAT cDNA comprising a nucleic acid sequence according to SEQ ID NO: 1, but which does not

immunoprecipitate the 40 kd protein from a lysate of non-transfected cells.

Claim 131. (previously presented) The purified antibody of claim 124, wherein the antibody does not stain endothelial cells.

Claim 132. (previously presented) The purified antibody of claim 123, wherein the antibody is a monoclonal antibody.

Claim 133. (previously presented) The purified antibody of claim 132, wherein the polypeptide comprising at least about five amino acids comprises SEQ ID NO: 4.

Claim 134. (previously presented) The purified antibody of claim 132, wherein the polypeptide comprises at least about 20 amino acids of SEQ ID NO: 4.

Claim 135. (previously presented) The purified antibody of claim 134, wherein said polypeptide comprising at least about twenty amino acids of the amino acid sequence of SEQ ID NO: 4 comprises amino acids 31-233 of LAT.

Claim 136. (previously presented) The purified antibody of claim 132, wherein the polypeptide comprising from at least about five amino acids to at least about 20 amino acids of SEQ ID NO: 4.

Claim 137. (previously presented) The purified antibody of claim 132, wherein said polypeptide comprises the cytosolic tail of LAT.

Claim 138. (previously presented) The purified antibody of claim 132, wherein the antibody immunoprecipitates a 40 kd protein from a lysate of C305 cells transfected with a LAT

cDNA comprising a nucleic acid sequence according to SEQ ID NO: 1, but which does not immunoprecipitate the 40 kd protein from a lysate of non-transfected cells.

Claim 139. (previously presented) The purified antibody of claim 132, wherein the antibody does not stain endothelial cells.

Claim 140. (previously presented) The purified antibody of claim 132, wherein the antibody is chimeric.

Claim 141. (previously presented) The purified antibody of claim 132, wherein the antibody is a humanized antibody.

Claim 142. (canceled)

Claim 143. (previously presented) The method of claim 94, further comprising humanizing the monoclonal antibody.